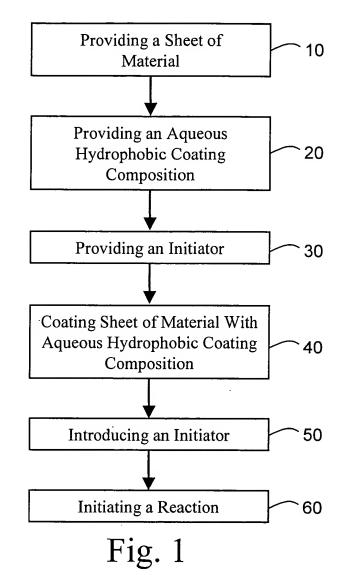
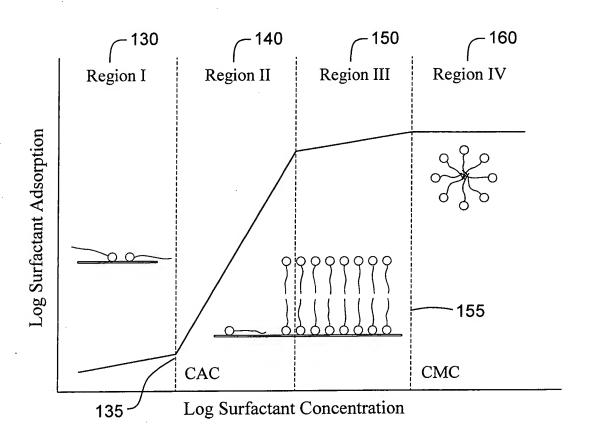
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80 Solution Micelle 120 110 Surface of the Substrate Hemimicelle Admicelle 100 Aggregations of Surfactant

Fig. 2

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Adsorption Isotherm of Surfactant Fig. 3

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Page 3 of 14 Informal Drawings Surfactant Monomer Μ – M — Polymer 80 Solution 62 85 A 90 90 Solid Substrate Absorbed Surfactant 100 -100 Μ Μ Μ Μ B 180 90 Monomer Partitioning -100 Μ 200 \mathbf{C} 190-

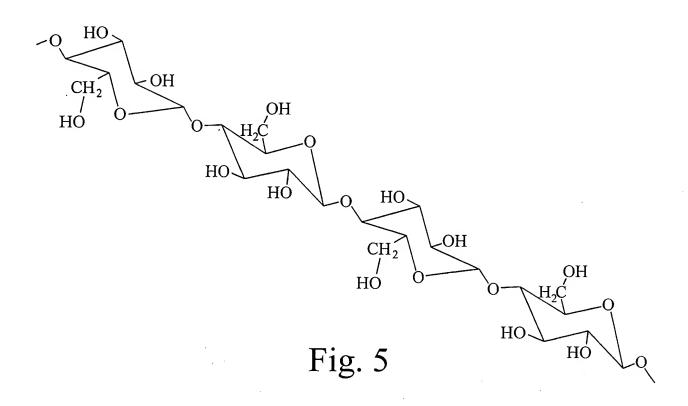
Fig. 4

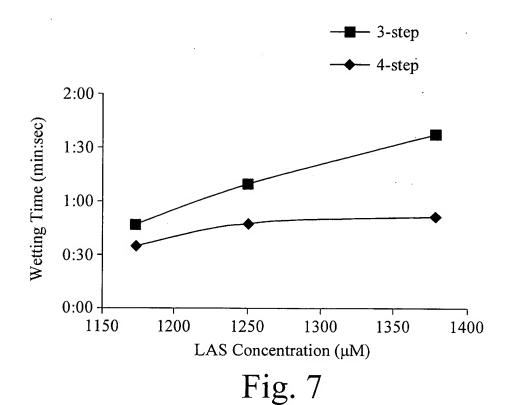
In-situ Polymerization

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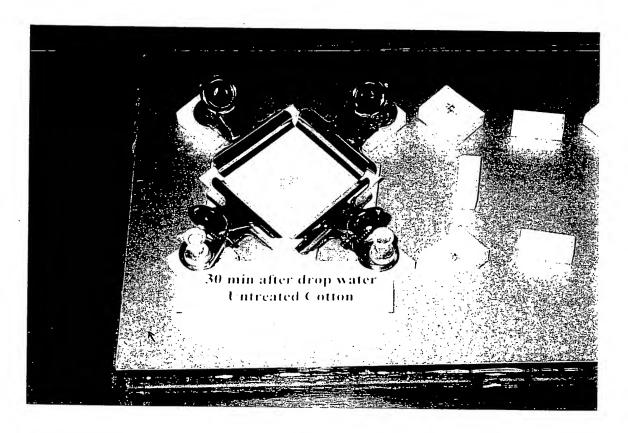
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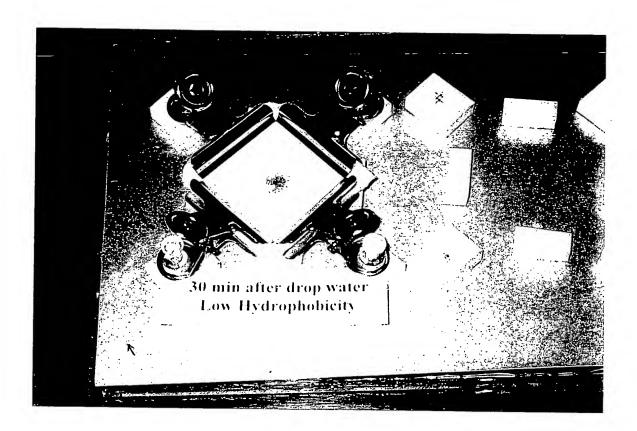
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e (of water think to the plante or (m) made) Resultat I see after drop water Untreated Cotton

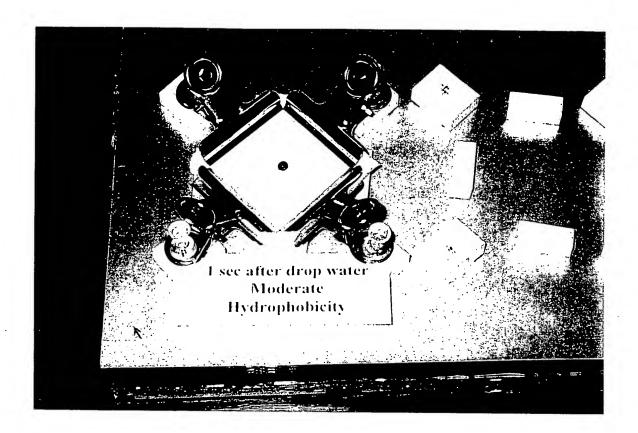


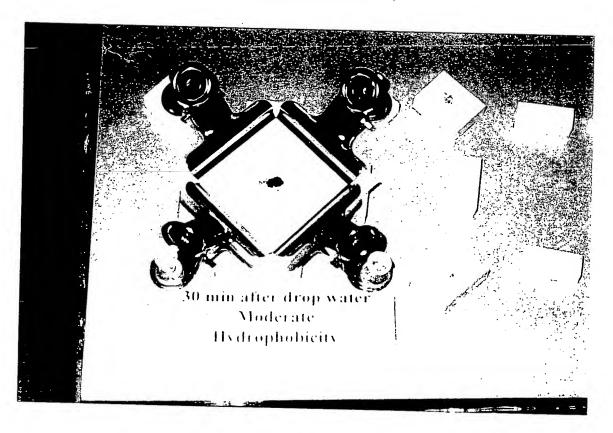
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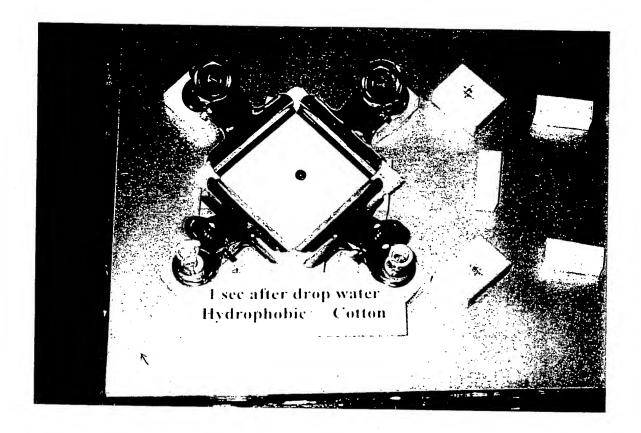


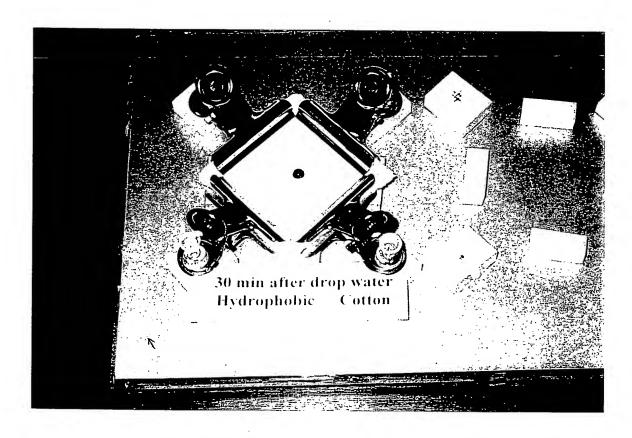
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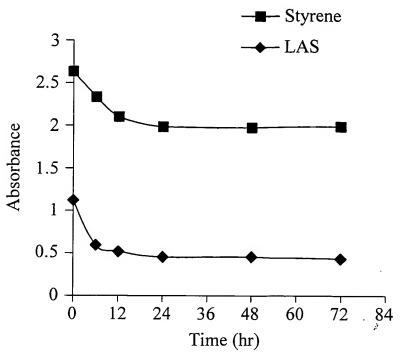
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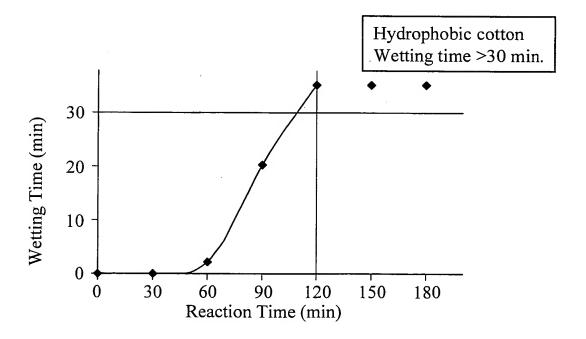
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Change in LAS and Styrene concentration with time in admicelle formation and adsolubilization steps.

Fig. 8



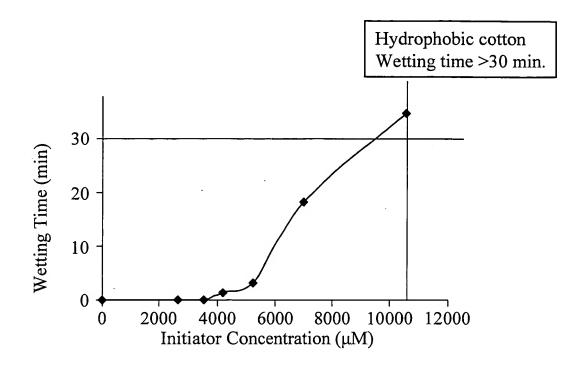
Wetting time of treated fabric with reaction time [LAS concentration 1000 µM, LAS:Styrene ratio=1:10, Initiator:Styrene ratio=1:1, and Polymerization time=2 hrs at 80°C]

Fig. 9

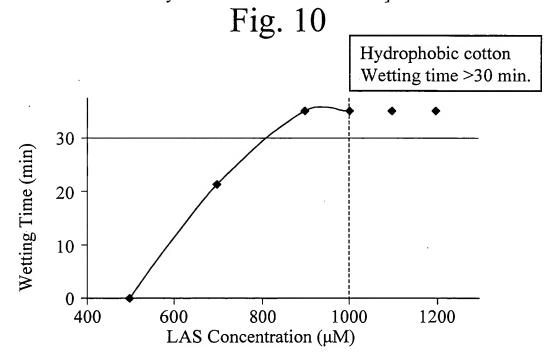
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Wetting time of treated fabric with varying amount of initiator [LAS concentration 1000 μM, LAS:Styrene ratio=1:10, and Polymerization time=2 hrs at 80°C]



Wetting time of treated fabric with varying LAS concentration [LAS:Styrene ratio=1:10, Initiator:Styrene ratio=1:1, and Polymerization time=2 hrs at 80°C]

Fig. 11

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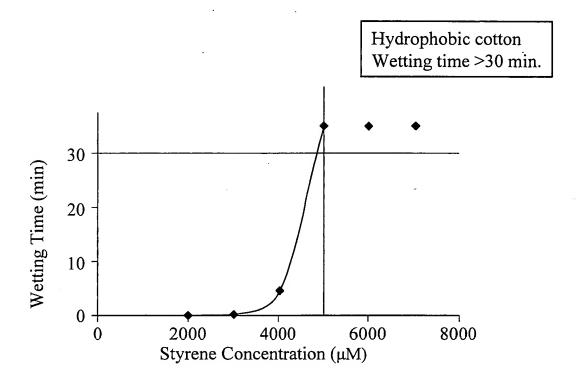
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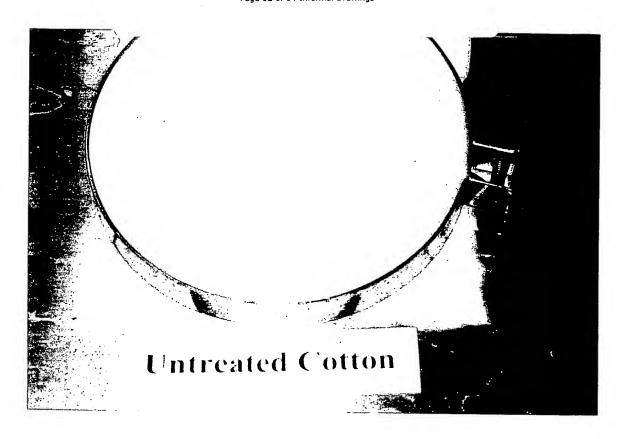


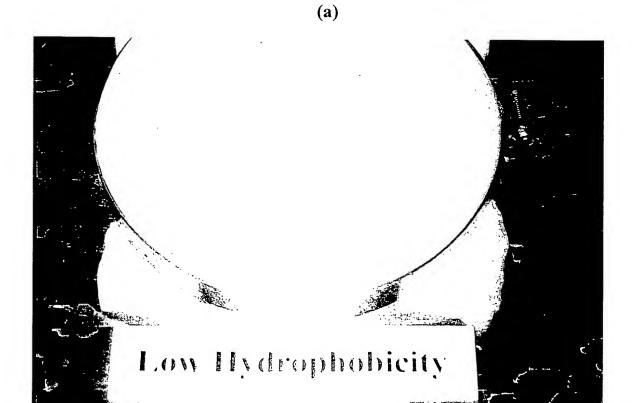
Wetting time of treated fabric with varying Styrene concentration [LAS concentration 1000 µM, Initiator:Styrene ratio=1:1, and Polymerization time=2 hrs at 80°C]

Fig. 12

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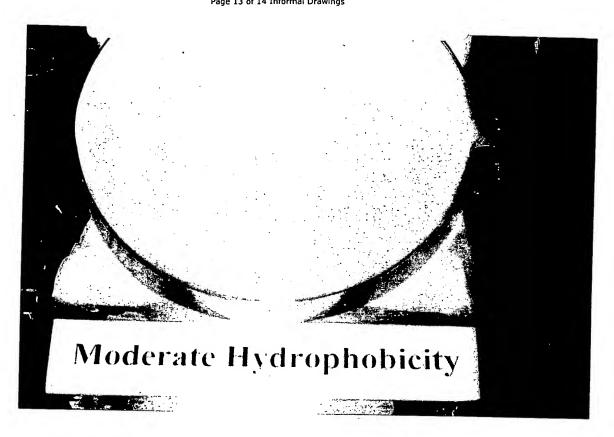


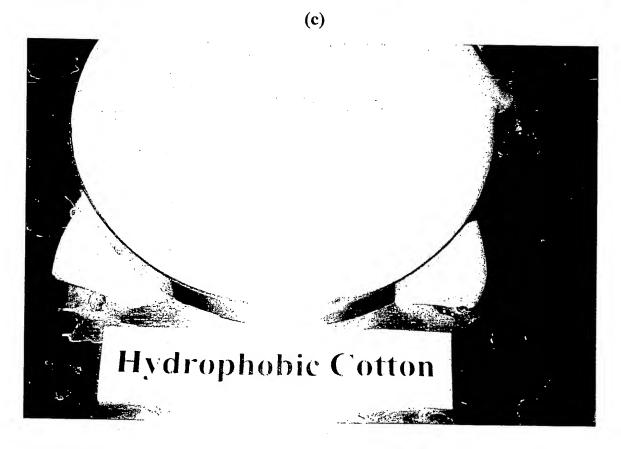
(b)

Figure 13

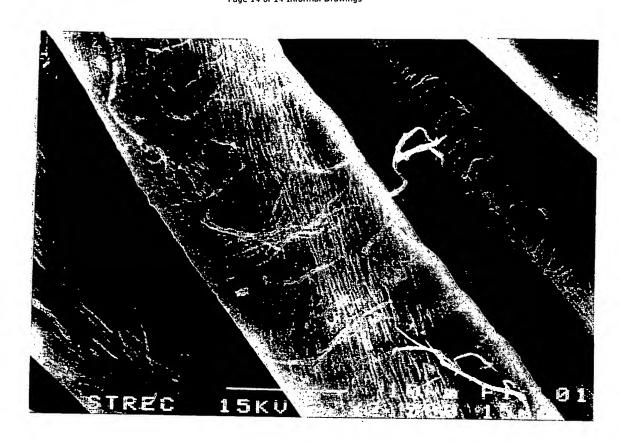
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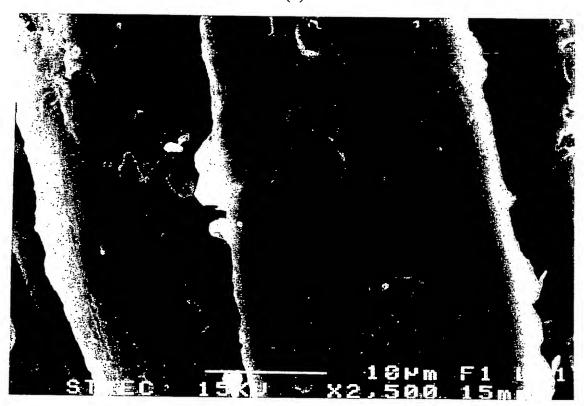




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(a)



(b)

Figure 14